

INFORMATION DISCLOSURE STATEMENT BY APPLICANT Modified PTO Form 1449	Docket No. 00395/45	Serial No. 10/569,315
	Inventor(s) Gerard M. HOUSEY	
THERAMUTEIN MODULATORS FOR OVERCOMING MUTATION-MEDIATED DRUG RESISTANCE	Filing Date April 28, 2009	Group 1623

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
	6,110,737	8/2000	Escobedo et al.			
	6,043,211	3/2000	Williams et al.			
	5,877,007	3/1999	Housey			
	5,688,655	11/1997	Housey			
	5,424,185	9/1993	Lam et al.			
	5,266,464	11/1993	Housey			
	5,057,417	10/1991	Hammonds et al.			
	5,030,576	7/1991	Dull et al.			
	4,981,790	1/1991	Haseltine			
	4,981,784	1/1991	Evans et al.			
	4,980,281	12/1990	Housey			
	4,910,132	3/1990	Knight et al.			
	4,859,609	8/1989	Dull et al.			
	4,859,585	8/1989	Sonnenschein et al.			
	4,857,637	8/1989	Hammonds et al.			
	4,701,406	10/1987	Chou			
	4,569,916	2/1986	Penman et al.			
	4,532,204	7/1985	Crespi et al.			
	4,480,038	10/1984	Cheng			
	5,145,842	Sep. 8, 1992	Driedger et al.			
	4,736,866	Apr. 12, 1988	Leder et al.			
	4,985,352	Jan. 15, 1991	Julius et al.			
	4,761,371	Aug. 2, 1988	Bell et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 89/07654	8/1989	WIPO				
	WO 89/03687	5/5/89	WIPO				
	EP 327 369 A2	8/9/89	Europe				
	WO 88/03168	5/5/88	WIPO				
	EP 325 849 B1	2/12/88	Europe				
	EP 246 882 A2	11/25/87	Europe				

OTHER DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Akiyama, S., Yoshimura, A., Kikuchi, H., Sumizawa, T., Kuwano, M., Tahara, Y. (1989) Synthetic isoprenoid photoaffinity labeling of P-glycoprotein specific to multidrug-resistant cells. Mol. Pharmacol. Nov;36:730-735.
		Alberts, T. (1994) Molecular Biology of the Cell, 3rd ed. (Garland Publishing, NY, USA) p. 1072.
		Alberts, T. (1994) Molecular Biology of the Cell, 3rd ed. (Garland Publishing, NY, USA) pp. 1264-1265.
		Angehrn, P. (1985) Antibacterial properties of carumonam (Ro 17-2301, AMA-1080), a new sulfonated monocyclic beta-lactam antibiotic. Chemotherapy 31:440-450.
		Armelin, H.A., Armelin, M.C., Kelly, K., Stewart, T., Leder, P., Cochran, B.H. and Stiles, C.D. (1984) Functional role for c-myc in mitogenic response to platelet-derived growth factor. Nature 310:655-660.
		Ashendel, C.L. (1985) The phorbol ester receptor: a phospholipid-regulated protein kinase. Biochim. Biophys. Acta 822:219-242.
		Ashkenazi, A., Winslow, J.W., Peralta, E.G., Peterson, G.L., Schimerlik, M.I., Capon, D.J. and Ramachandran, J. (1987) An M2 muscarinic receptor subtype coupled to both adenylyl cyclase and phosphoinositide turnover. Science 238:672-675.
		Balzarini, J., de Clercq, E., Ayusawa, D., Seno, T. (1985) Murine mammary FM3A carcinoma cells transformed with the herpes simplex virus type 1 thymidine kinase gene are highly sensitive to the growth-inhibitory properties of (E)-5-(2-bromovinyl)-2'-deoxyuridine and related compounds. FEBS Lett. 185:95-100.
		Bardon, S., Vignon, F., Derocq, D., Rochefort, H. (1984) The antiproliferative effect of tamoxifen in breast cancer cells: mediation by the estrogen receptor. Mol. Cell. Endocrinol. 35:89-96.
		Bardon, S., Vignon, F., Chalbos, D., Rochefort, H. (1985) RU486, a progestin and glucocorticoid antagonist, inhibits the growth of breast cancer cells via the progesterone receptor. J. Clin. Endocrinol. Metab. 60:692-697.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Beck, W.T., Mueller, T.J., Tanzer, L.R. (1979) Altered surface membrane glycoproteins in Vinca alkaloid-resistant human leukemic lymphoblasts. <i>Cancer Res.</i> 39(6 Pt 1):2070-2076.
		Beck, W.T., Cirtain, M.C., Look, A.T., Ashmun, R.A. (1986) Reversal of Vinca alkaloid resistance but not multiple drug resistance in human leukemic cells by verapamil. <i>Cancer Res.</i> 46:778-784.
		Berkow, R.L., Dodson, R.W., Kraft, A.S. (1987) The effect of a protein kinase C inhibitor, H-7, on human neutrophil oxidative burst and degranulation. <i>J. Leukoc. Biol.</i> 41:441-446.
		Berridge, M.J., Downes, C.P. and Hanley, M.R. (1982) Lithium amplifies agonist-dependent phosphatidylinositol responses in brain and salivary glands. <i>Biochem. J.</i> 206:587-595.
		Bollag, G.E., Roth, R.A., Beaudoin, J., Mochly-Rosen, D. and Koshland, D.E. Jr. (1986) Protein kinase C directly phosphorylates the insulin receptor <i>in vitro</i> and reduces its protein-tyrosine kinase activity. <i>Proc. Natl. Acad. Sci. USA</i> 83:5822-5824.
		Boreiko, C., Mondal, S., Narayan, K.S. and Heidelberger, C. (1980) Effect of 12-O-tetradecanoylphorbol-13-acetate on the morphology and growth of C3H/10T1/2 mouse embryo cells. <i>Cancer Res.</i> 40:4709-4716.
		Brandt, S.J., Nidel, J.E., Bell, R.M. and Young, W.S. 3d (1987) Distinct patterns of expression of different protein kinase C mRNAs in rat tissues. <i>Cell</i> 49:57-63.
		Brann, M.R., Buckley, N.J., Jones, S.V. and Bonner, T.I. (1987) Expression of a cloned muscarinic receptor in A9 L cells. <i>Mol. Pharmacol.</i> 32:450-455.
		Camper, S.A., Yao, Y.A. and Rottman F.M. (1985) Hormonal regulation of the bovine prolactin promoter in rat pituitary tumor cells. <i>J. Biol. Chem.</i> 260:12246-12251
		Catino, J.J., Francher, D.M., Edinger, K.J. and Stringfellow, D.A. (1985) A microtitre cytotoxicity assay useful for the discovery of fermentation-derived antitumor agents. <i>Cancer Chemother. Pharmacol.</i> 15:240-243.
		Chen, C.J., Chin, J.E., Ueda, K., Clark, D.P., Pastan, I., Gottesman, M.M., Roninson, I.B. (1986) Internal duplication and homology with bacterial transport proteins in the <i>mdr1</i> (P-glycoprotein) gene from multidrug-resistant human cells. <i>Cell</i> 47:381-389.
		Chomczynski, P. and Sacchi, N. (1987) Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. <i>Anal. Biochem.</i> 162:156-159.
		Chou, C.K., Dull, T.J., Russell, D.S., Gherzi, R., Lebwohl, D., Ullrich, A. and Rosen, O.M. (1987) Human insulin receptors mutated at the ATP-binding site lack protein tyrosine kinase activity and fail to mediate postreceptor effects of insulin. <i>J. Biol. Chem.</i> 262:1842-1847.
		Ciardiello, F., Yanagihara, K., Tagliaferri, P., Bassin, R.H., Salomon D.S. (1987) Selective growth sensitivity to 4-cis-hydroxy-L-proline of rodent transformed cell lines and human tumor cell lines <i>in vitro</i> . Abstract 260, <i>Proc. AACR</i> 28:65.
		Clauser, E., Ellis, L., Morgan, D., Edery, M., Roth, R.A. and Rutter, W.J. (1987) The human insulin receptor cDNA: a new tool to study the function of this receptor. <i>J. Recept. Res.</i> 7:377-404.
		Connan, G., Rassoulzadegan, M. and Cuzin, F. (1985) Focus formation in rat fibroblasts exposed to a tumour promoter after transfer of polyoma plt and myc oncogenes. <i>Nature</i> 314:277-279.
		Cornwell, M.M., Gottesman, M.M., Pastan, I.H. (1986) Increased vinblastine binding to membrane vesicles from multidrug-resistant KB cells. <i>J. Biol. Chem.</i> 261:7921-7928.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Cornwell, M.M., Safa, A.R., Felsted, R.L., Gottesman, M.M., Pastan, I. (1986) Membrane vesicles from multidrug-resistant human cancer cells contain a specific 150- to 170-kDa protein detected by photoaffinity labeling. <i>Proc. Natl. Acad. Sci. USA</i> 83:3847-3850.
		Cornwell, M.M., Pastan, I., Gottesman, M.M. (1987) Certain calcium channel blockers bind specifically to multidrug-resistant human KB carcinoma membrane vesicles and inhibit drug binding to P-glycoprotein. <i>J. Biol. Chem.</i> 262:2166-2170.
		Coussens, L., Parker, P.J., Rhee, L., Yang-Feng, T.L., Chen, E., Waterfield, M.D., Francke, U. and Ullrich, A. (1986) Multiple, distinct forms of bovine and human protein kinase C suggest diversity in cellular signaling pathways. <i>Science</i> 233:859-866.
		Croop, J.M., Guild, B.C., Gros, P. and Housman, D.E. (1987) Genetics of multidrug resistance: relationship of a cloned gene to the complete multidrug resistant phenotype. <i>Cancer Res.</i> 47:5982-5988.
		Dailey, L. and Basilico, C. (1985) Sequences in the polyomavirus DNA regulatory region involved in viral DNA replication and early gene expression. <i>J. Virol</i> 54:739-749.
		Daley, G.Q., McLaughlin, J., Witte, O.N. and Baltimore, D. (1987) The CML-specific P210 bcr/abl protein, unlike v-abl, does not transform NIH/3T3 fibroblasts. <i>Science</i> 237:532-535.
		Dano K. (1973) Active outward transport of daunomycin in resistant Ehrlich ascites tumor cells. <i>Biochim Biophys Acta.</i> 323:466-483.
		Darnell, J.E. et al. (1986) <i>Molecular Cell Biology</i> , Scientific American Books, Inc. p. 143.
		Davis, R.J. and Czech, M.P. (1985) Platelet-derived growth factor mimics phorbol diester action on epidermal growth factor receptor phosphorylation at threonine-654. <i>Proc. Natl. Acad. Sci. USA</i> 82:4080-4084.
		Dean, M., Cleveland, J.L., Rapp, U.R. and Ihle, J.N. (1987) Role of myc in the abrogation of IL3 dependence of myeloid FDC-P1 cells. <i>Oncogene Res.</i> 1:279-296.
		Debouck, C., Gorniak, J.G., Strickler, J.E., Meek, T.D., Metcalf, B.W. and Rosenberg, M. (1987) Human immunodeficiency virus protease expressed in <i>Escherichia coli</i> exhibits autoprocessing and specific maturation of the gag precursor. <i>Proc. Natl. Acad. Sci. USA</i> 84:8903-8906.
		De Brabander, M., Van de Veire, R., Aerts, F., Geuens, S., Hoebeke, J. (1976) A new culture model facilitating rapid quantitative testing of mitotic spindle inhibition in mammalian cells. <i>J. Natl. Cancer. Inst.</i> 56:357-363.
		Depper, J.M., Leonard, W.J., Robb, R.J., Waldmann, T.A., Greene, W.C. (1983) Blockade of the interleukin-2 receptor by anti-Tac antibody: inhibition of human lymphocyte activation. <i>J. Immunol.</i> 131:690-696.
		DeSantis, R., Santer, U.V., Glick, M.C. (1987) NIH 3T3 cells transfected with human tumor DNA lose the transformed phenotype when treated with swainsonine. <i>Biochem. Biophys. Res. Commun.</i> 142:348-353.
		Di Fiore, P.P., Pierce, J.H., Fleming, T.P., Hazan, R., Ullrich, A., King, C.R., Schlessinger, J. and Aaronson, S.A. (1987) Overexpression of the human EGF receptor confers an EGF-dependent transformed phenotype to NIH 3T3 cells. <i>Cell</i> 51:1063-1070.
		Di Fiore, P.P., Pierce, J.H., Kraus, M.H., Segatto, O., King, C.R., Aaronson, S.A. (1987) erbB-2 is a potent oncogene when overexpressed in NIH/3T3 cells. <i>Science</i> 237:178-182.
		Dixon, R.A., Kobilka, B.K., Strader, D.J., Benovic, J.L., Dohlman, H.G., Frielle, T., Bolanowski, M.A., Bennett, C.D., Rands, E., Diehl, R.E., et al. (1986) Cloning of the gene and cDNA for mammalian beta-adrenergic receptor and homology with rhodopsin. <i>Nature</i> 321(6065):75-79.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Dixon, R.A., Sigal, I.S., Candelore, M.R., Register, R.B., Scattergood, W., Rands, E., Strader, C.D. (1987) Structural features required for ligand binding to the beta-adrenergic receptor. EMBO J. 6:3269-3275.
		Dixon, R.A., Sigal, I.S., Rands, E., Register, R.B., Candelore, M.R., Blake, A.D. and Strader, C.D. (1987) Ligand binding to the beta-adrenergic receptor involves its rhodopsin-like core. Nature 326:73-77.
		Dotto, G.P., Parada, L.F. and Weinberg, R.A. (1985) Specific growth response of ras-transformed embryo fibroblasts to tumour promoters. Nature 318:472-475.
		Drebin, J.A., Link, V.C., Stern, D.F., Weinberg, R.A. and Greene, M.I. (1985) Down-modulation of an oncogene protein product and reversion of the transformed phenotype by monoclonal antibodies. Cell 41:695-706.
		Druege, P.M., Klein-Hitpass, L., Green, S., Stack, G., Chambon, P. and Ryffel, G.U. (1986) Introduction of estrogen-responsiveness into mammalian cell lines. Nucleic Acids Res. 14:9329-9337.
		Ebeling, J.G., Vandenbark, G.R., Kuhn, L.J., Ganong, B.R., Bell, R.M., Nidel, J.E. (1985) Diacylglycerols mimic phorbol diester induction of leukemic cell differentiation. Proc. Natl. Acad. Sci. USA 82:815-819.
		Ebina, Y., Araki, E., Taira, M., Shimada, F., Mori, M., Craik, C.S., Siddle, K., Pierce, S.B., Roth, R.A. and Rutter, W.J. (1987) Replacement of lysine residue 1030 in the putative ATP-binding region of the insulin receptor abolishes insulin- and antibody-stimulated glucose uptake and receptor kinase activity. Proc. Natl. Acad. Sci. USA 84(3):704-708.
		Ebina, Y., Edery, M., Ellis, L., Standring, D., Beaudoin, J., Roth, R.A. and Rutter, W.J. (1985) Expression of a functional human insulin receptor from a cloned cDNA in Chinese hamster ovary cells. Proc. Natl. Acad. Sci. USA 82:8014-8018.
		Elespuru, R.K. and White, R.J. (1983) Biochemical prophage induction assay: a rapid test for antitumor agents that interact with DNA. Cancer Res. 43:2819-2830.
		Elespuru, R.K. and Yarmolinsky, M.B. (1979) A colorimetric assay of lysogenic induction designed for screening potential carcinogenic and carcinostatic agents. Environ. Mutagen. 1:65-78.
		Ellis, L., Clauser, E., Morgan, D.O., Edery, M., Roth, R.A. and Rutter, W.J. (1986) Replacement of insulin receptor tyrosine residues 1162 and 1163 compromises insulin-stimulated kinase activity and uptake of 2-deoxyglucose. Cell 45:721-732.
		Erikson, R.L., Purchio, A.F., Erikson, E., Collett, M.S., Brugge, J.S. (1980) Molecular events in cells transformed by Rous Sarcoma virus. J. Cell Biol. 87:319-325.
		Escobedo, J.A., Keating, M.T., Ives, H.E. and Williams, L.T. (1988) Platelet-derived growth factor receptors expressed by cDNA transfection couple to a diverse group of cellular responses associated with cell proliferation. J. Biol. Chem. 263:1482-1487.
		Fairbanks, K.P., Barbu, V.D., Witte, L.D., Weinstein, I.B. and Goodman, D.S. (1986) Effects of mevinolin and mevalonate on cell growth in several transformed cell lines. J. Cell. Physiol. 127:216-222.
		Farmerie, W.G., Loeb, D.D., Casavant, N.C., Hutchison, C.A. 3d, Edgell, M.H. and Swanstrom, R. (1987) Expression and processing of the AIDS virus reverse transcriptase in Escherichia coli. Science 236:305-308.
		Feramisco, J.R., Clark, R., Wong, G., Arnheim, N., Milley, R., McCormick, F. (1985) Transient reversion of ras oncogene-induced cell transformation by antibodies specific for amino acid 12 of ras protein. Nature 314(6012):639-642.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Fojo, A., Akiyama, S., Gottesman, M.M., Pastan, I. (1985) Reduced drug accumulation in multiply drug-resistant human KB carcinoma cell lines. <i>Cancer Res.</i> 45:3002-3007.
		Fojo, A.T., Whang-Peng, J., Gottesman, M.M., Pastan, I. (1985) Amplification of DNA sequences in human multidrug-resistant KB carcinoma cells. <i>Proc. Natl. Acad. Sci. USA.</i> 82:7661-7665.
		Fojo, A., Cornwell, M., Cardarelli, C., Clark, D.P., Richert, N., Shen, D.W., Ueda, K., Willingham, M., Gottesman, M.M., Pastan, I. (1987) Molecular biology of drug resistance. <i>Breast Cancer Res. Treat.</i> 9:5-16.
		Fontana, S., Del Vecchio, L., Racioppi, L., Carbone, E., Pinto, A., Colletta, G., Zappacosta, S. (1987) Expression of major histocompatibility complex class I antigens in normal and transformed rat thyroid epithelial cell lines. <i>Cancer Res.</i> 47:4178-4183.
		Fraser, C.M., Chung, F.Z. and Venter, J.C. (1987) Continuous high density expression of human beta 2-adrenergic receptors in a mouse cell line previously lacking beta-receptors. <i>J. Biol. Chem.</i> 262:14843-14846.
		Freedman, V.H. and Shin, S.I. (1974) Cellular tumorigenicity in nude mice: correlation with cell growth in semi-solid medium. <i>Cell</i> 3:355-359.
		Freeman, A.E., Price, P.J., Igel, H.J., Young, J.C., Maryak, J.M. and Huebner, R.J. (1970) Morphological transformation of rat embryo cells induced by dimethylnitrosamine and murine leukemia viruses. <i>J. Natl. Cancer Inst.</i> 44:65-78.
		Friis, R.R., Schwarz, R.T., Schmidt, M.F. (1977) Phenotypes of Rous sarcoma virus-transformed fibroblasts: an argument for a multifunctional Src gene product. <i>Med. Microbiol. Immunol. (Berl).</i> 164:155-165.
		Fukazawa, H., Uehara, Y., Murakami, Y., Mizuno, S., Hamada, M. and Takeuchi, T. (1994) Labeling of v-Src and BCR-ABL tyrosine kinases with [¹⁴ C]herbimycin A and its use in the elucidation of the kinase inactivation mechanism. <i>FEBS Lett.</i> 340:155-158.
		Fukuda, K., Kubo, T., Akiba, I., Maeda, A., Mishina, M., Numa, S. (1987) Molecular distinction between muscarinic acetylcholine receptor subtypes. <i>Nature</i> 327:623-625.
		Gallick et al. (1988) Specific Reduction in SRC Kinase Activity in HT-29 Humal Colorectal Carcinomal Cells Correlates with Growth Inhibition by Interperon and Tumor Necrosis Factor. <i>UCLA Symposia on Molecular & Cellular Biology Abstract D 207</i> , January 17-January 30, 1988.
		Gerlach, J.H., Endicott, J.A., Juranka, P.F., Henderson, G., Sarangi, F., Deuchars, K.L., Ling, V. (1986) Homology between P-glycoprotein and a bacterial haemolysin transport protein suggests a model for multidrug resistance. <i>Nature</i> 324(6096):485-489.
		Gherzi, R., Russell, D.S., Taylor, S.I. and Rosen, O.M. (1987) Reevaluation of the evidence that an antibody to the insulin receptor is insulinmimetic without activating the protein tyrosine kinase activity of the receptor. <i>J. Biol. Chem.</i> 262:16900-16905.
		Giguere, V., Hollenberg, S.M., Rosenfeld, M.G. and Evans, R.M. (1986) Functional domains of the human glucocorticoid receptor. <i>Cell</i> 46:645-652.
		Gill, G.N., Santon, J.B., Bertics, P.J. (1987) Regulatory features of the epidermal growth factor receptor. <i>J. Cell. Physiol. Suppl.</i> 5:35-41.
		Glick, M.C., De Santis, R., Santer, U.V. (1985) Glycosylation changes in membrane glycoproteins after transfection of NIH 3T3 with human tumor DNA. <i>Prog. Clin. Biol. Res.</i> 175:229-237.
		Gooding, L.R., Geib, R.W., O'Connell, K.A. and Harlow, E. (1984) Antibody and cellular detection of SV40 T-antigenic determinants on the surfaces of transformed cells. In Levine, A.J. et al. (Eds), <i>Cancer Cells 1: The Transformed Phenotype</i> pp. 263-269. (Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.)

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Gorre, Mercedes E. et al. Clinical Resistance to STI-571 Cancer Therapy Caused by BCR-ABL Gene Mutation or Amplification, Science (2001) Vol. 293, pp 876 – 880.
		Gould, K.L., Woodgett, J.R., Cooper, J.A., Buss, J.E., Shalloway, D. and Hunter, T. (1985) Protein kinase C phosphorylates pp60src at a novel site. Cell 42:849-857.
		Grabau, C.L. (1987) Genetic and biochemical characterization of the lipid-protein interactions of pyruvate oxidase. U. of Illinois Ph.D. Dissertation
		Graham, F.L. and van der Eb, A.J. (1973) A new technique for the assay of infectivity of human adenovirus 5 DNA. Virology 52:456-467.
		Green, S., Walter, P., Kumar, V., Krust, A., Bornert, J.M., Argos, P., Chambon, P. (1986) Human oestrogen receptor cDNA: sequence, expression and homology to v-erb-A. Nature. 320(6058):134-139.
		Grieverson, A.P.H. (1987) Enhancement of extracellular enzyme secretion in Bacillus licheniformis NCIB 6346. Ph.D. Dissertation.
		Gros, P., Ben Neriah, Y., Croop, J.M., Housman, D.E. (1986) Isolation and expression of a complementary DNA that confers multidrug resistance. Nature 323(6090):728-731.
		Gros, P., Croop, J., Housman, D. (1986) Mammalian multidrug resistance gene: complete cDNA sequence indicates strong homology to bacterial transport proteins. Cell 47:371-380.
		Guillem, J.G., O'Brian, C.A., Fitzer, C.J., Forde, K.A., LoGerfo, P., Treat, M., Weinstein, I.B. (1987) Altered levels of protein kinase C and Ca ²⁺ -dependent protein kinases in human colon carcinomas. Cancer Res. 47:2036-2039.
		Gunter, K.C., Kroczyk, R.A., Shevach, E.M. and Germain, R.N. (1986) Functional expression of the murine Thy-1.2 gene in transfected human T cells. J. Exp. Med. 163:285-300.
		Hamada, H., Tsuruo, T. (1986) Functional role for the 170- to 180-kDa glycoprotein specific to drug-resistant tumor cells as revealed by monoclonal antibodies. Proc. Natl. Acad. Sci. U S A. 83:7785-7789.
		Hapel, A.J., Vande Woude, G., Campbell, H.D., Young, I.G. and Robins, T. (1986) Generation of an autocrine leukaemia using a retroviral expression vector carrying the interleukin-3 gene. Lymphokine Res. 5:249-254.
		Hillova, J., Hill, M., Belehradek, J. Jr., Mariage-Samson, R., Brada, Z. (1986) Loss of the oncogene from human H-ras-1-transfected NIH/3T3 cells grown in the presence of excess methionine. J. Natl. Cancer Inst. 77:721-732.
		Honegger, A.M., Szapary, D., Schmidt, A., Lyall, R., Van Obberghen, E., Dull, T.J., Ullrich, A. and Schlessinger, J. (1987) A mutant epidermal growth factor receptor with defective protein tyrosine kinase is unable to stimulate proto-oncogene expression and DNA synthesis. Mol. Cell. Biol. 7:4568-4571.
		Horgan, K., Cooke, E., Hallett, M.B., Mansel, R.E. (1986) Inhibition of protein kinase C mediated signal transduction by tamoxifen. Importance for antitumour activity. Biochem. Pharmacol. 35:4463-4465.
		Horowitz, A.D., Greenebaum, E. and Weinstein, I.B. (1981) Identification of receptors for phorbol ester tumor promoters in intact mammalian cells and of an inhibitor of receptor binding in biologic fluids. Proc. Natl. Acad. Sci. USA 78:2315-2319.
		Horwich, A.L., Fenton, W.A., Firgaira, F.A., Fox, J.E., Kolansky, D., Mellman, I.S., Rosenberg, L.E. (1985) Expression of amplified DNA sequences for ornithine transcarbamylase in HeLa cells: arginine residues may be required for mitochondrial import of enzyme precursor. J. Cell. Biol. 100:1515-1521.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Housey, G.M., Kirschmeier, P., Garte, S.J., Burns, F., Troll, W. and Weinstein, I.B. (1985) Expression of long terminal repeat (LTR) sequences in carcinogen-induced murine skin carcinomas. <i>Biochem. Biophys. Res. Commun.</i> 127:391-398.
		Housey, G.M., Johnson, M.D., Hsiao, W.L., O'Brian, C.A., Murphy, J.P., Kirschmeier, P. and Weinstein, I.B. (1988) Overproduction of protein kinase C causes disordered growth control in rat fibroblasts. <i>Cell</i> 52:343-354.
		Hsiao, W.-L.W., Wu, T., and Weinstein, I.B. (1986) Oncogene-induced transformation of a rat embryo fibroblast cell line is enhanced by tumor promoters. <i>Mol. Cell. Biol.</i> 6:1943-1950.
		Hsiao, W.-L.W., Lopez, C.A., Weinstein, I.B. (1986) Tumor promoters and a serum factor enhance expression of the transformed phenotype in rat 6 fibroblasts transfected with an activated oncogene. In: <i>Journal of Cellular Biochemistry, Supplement 10C: UCLA Symposia on Molecular & Cellular Biology, Abstract L155, Alan R. Liss, Inc., New York, p. 152.</i>
		Hsiao, W.L., Lopez, C.A., Wu, T., Weinstein, I.B. (1987) A factor present in fetal calf serum enhances oncogene-induced transformation of rodent fibroblasts. <i>Mol. Cell Biol.</i> 7:3380-3385.
		Huang, J.S., Huang, S.S. and Deuel, T.F. (1984) Transforming protein of simian sarcoma virus stimulates autocrine growth of SSV-transformed cells through PDGF cell-surface receptors. <i>Cell</i> 39:79-87.
		Huang, K.-P., Nakabayashi, H. and Huang, F.L. (1986) Isozymic forms of rat brain Ca ²⁺ -activated and phospholipid-dependent protein kinase. <i>Proc. Natl. Acad. Sci. USA</i> 83:8535-8539.
		Huberman, E., Callahan, M.F. (1979) Induction of terminal differentiation in human promyelocytic leukemia cells by tumor-promoting agents. <i>Proc. Natl. Acad. Sci. USA</i> 76:1293-1297.
		Hudziak, R.M., Schlessinger, J. and Ullrich, A. (1987) Increased expression of the putative growth factor receptor p185HER2 causes transformation and tumorigenesis of NIH 3T3 cells. <i>Proc. Natl. Acad. Sci. USA</i> 84:7159-7163.
		Hunter, T., Ling, N. and Cooper, J.A. (1984) Protein kinase C phosphorylation of the EGF receptor at a threonine residue close to the cytoplasmic face of the plasma membrane. <i>Nature</i> 311:480-483.
		Jaken, S. and Kiley, S.C. (1987) Purification and characterization of three types of protein kinase C from rabbit brain cytosol. <i>Proc. Natl. Acad. Sci. USA</i> 84:4418-4422.
		Jetten, A.M., Shirley, J.E. (1985) Inhibition of ornithine decarboxylase by retinoic acid and difluoromethylornithine in relation to their effects on differentiation and proliferation. <i>Exp. Cell Res.</i> 156:221-230.
		Jetten, A.M., Barrett, J.C., Gilmer, T.M. (1986) Differential response to retinoic acid of Syrian hamster embryo fibroblasts expressing v-src or v-Ha-ras oncogenes. <i>Mol. Cell. Biol.</i> 6:3341-3348.
		Johnson, M.D., Housey, G.M., O'Brian, C.A., Kirschmeier, P.T., and Weinstein, I.B. (1987) Role of protein kinase C in regulation of gene expression and relevance to tumor promotion. <i>Environ. Health. Perspect.</i> 76:89-95.
		Johnsson, A., Betsholtz, C., Heldin, C.H. and Westermark, B. (1985) Antibodies against platelet-derived growth factor inhibit acute transformation by simian sarcoma virus. <i>Nature</i> 317:438-440.
		Johnson, M.D., Housey, G.M., Kirschmeier, P.T. and Weinstein, I.B. (1987) Molecular cloning of gene sequences regulated by tumor promoters and mitogens through protein kinase C. <i>Mol. Cell. Biol.</i> 7:2821-2829.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Juliano, R.L., Ling, V. (1976) A surface glycoprotein modulating drug permeability in Chinese hamster ovary cell mutants. <i>Biochim Biophys Acta.</i> 455:152-162.
		Julius, D., MacDermott, A.B., Axel, R. and Jessell, T.M. (1988) Molecular characterization of a functional cDNA encoding the serotonin 1c receptor. <i>Science</i> 241:558-564.
		Julius, D., Livelli, T.J., Jessell, T.M. and Axel, R. (1989) Ectopic expression of the serotonin 1c receptor and the triggering of malignant transformation. <i>Science</i> 244:1057-1062.
		Kahn, C.R. and White, M.F. (1988) The insulin receptor and the molecular mechanism of insulin action. <i>J. Clin. Invest.</i> 82:1151-1156.
		Kara, J., Vacha, P., Holy, A. (1979) 9-(S)-(2,3-Dihydroxypropyl)adenine inhibits the transformation of chick embryo fibroblasts infected with Rous sarcoma virus: Evidence for inhibition of enzymatic activity of isolated cellular protein kinases by the drug. <i>FEBS Lett.</i> 107:187-192.
		Kasuga, M., Karlsson, F.A. and Kahn, C.R. (1982) Insulin stimulates the phosphorylation of the 95,000-dalton subunit of its own receptor. <i>Science</i> 215:185-187.
		Kawamoto, S. and Hidaka, H. (1984) 1-(5-Isoquinolinesulfonyl)-2-methylpiperazine (H-7) is a selective inhibitor of protein kinase C in rabbit platelets. <i>Biochem. Biophys. Res. Commun.</i> 125:258-264.
		Kikkawa, U., Takai, Y., Minakuchi, R., Inohara, S. and Nishizuka, Y. (1982) Calcium-activated, phospholipid-dependent protein kinase from rat brain. Subcellular distribution, purification, and properties. <i>J. Biol. Chem.</i> 257:13341-13348.
		Kirschmeier, P.T., Housey, G.M., Johnson, M.D., Perkins, A.S. and Weinstein, I.B. (1988) Construction and characterization of a retroviral vector demonstrating efficient expression of cloned cDNA sequences. <i>DNA</i> 7:219-225.
		Klohs, W.D., Steinkampf, R.W., Havlick, M.J., Jackson, R.C. (1986) Resistance to anthracyclines and anthracyclines in multidrug-resistant P388 murine leukemia cells: reversal by calcium blockers and calmodulin antagonists. <i>Cancer Res.</i> 46:4352-4356.
		Knopf, J.L., Lee, M.H., Sultzman, L.A., Kriz, R.W., Loomis, C.R., Hewick, R.M. and Bell, R.M. (1986) Cloning and expression of multiple protein kinase C cDNAs. <i>Cell</i> 46:491-502.
		Kobilka, B.K., MacGregor, C., Daniel, K., Kobilka, T.S., Caron, M.G., Lefkowitz, R.J., et al. (1987) Functional activity and regulation of human β_2 -adrenergic receptors expressed in <i>Xenopus</i> oocytes. <i>J. Biol. Chem.</i> 262:15796-15802.
		Kolata, G. (1986) Why do cancer cells resist drugs? <i>Science</i> 231(4735):220-221.
		Kraft, A.S., Reeves, J.A. and Ashendel, C.L. (1988) Differing modulation of protein kinase C by bryostatin 1 and phorbol esters in JB6 mouse epidermal cells. <i>J. Biol. Chem.</i> 263:8437-8442.
		Kraft, A.S. and Anderson, W.B. (1983) Characterization of cytosolic calcium-activated phospholipid-dependent protein kinase activity in embryonal carcinoma cells. Effect of retinoic acid-induced differentiation of F9 cells to parietal endoderm. <i>J. Biol. Chem.</i> 258:9178-9183.
		Krishan, A., Sauerteig, A., Gordon, K., Swinkin, C. (1986) Flow cytometric monitoring of cellular anthracycline accumulation in murine leukemic cells. <i>Cancer Res.</i> 46(4 Pt 1):1768-1773.
		Laemmli, U. K. (1970) Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4. <i>Nature</i> 227, 680-685.
		Laker, C., Stocking, C., Bergholz, U., Hess, N., De Lamarter, J.F., Ostertag, W. (1987) Autocrine stimulation after transfer of the granulocyte/macrophage colony-stimulating factor gene and autonomous growth are distinct but interdependent steps in the oncogenic pathway. <i>Proc. Natl. Acad. Sci. U S A</i> 84:8458-8462.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Lang, R.A., Metcalf, D., Gough, N.M., Dunn, A.R. and Gonda, T.J. (1985) Expression of a hemopoietic growth factor cDNA in a factor-dependent cell line results in autonomous growth and tumorigenicity. <i>Cell</i> 43:531-542.
		Leach, K.L., James, M.L. and Blumberg, P.M. (1983) Characterization of a specific phorbol ester aporeceptor in mouse brain cytosol. <i>Proc. Natl. Acad. Sci. USA</i> 80:4208-4212.
		Lee, F., Yokota, T., Otsuka, T., Gemmell, L., Larson, N., Luh, J., Arai, K. and Rennick, D. (1985) Isolation of cDNA for a human granulocyte-macrophage colony-stimulating factor by functional expression in mammalian cells. <i>Proc. Natl. Acad. Sci. USA</i> 82:4360-4364.
		Lippman, S.M., Kessler, J.F. and Meyskens, F.L. Jr. (1987) Retinoids as preventive and therapeutic anticancer agents (Part I). <i>Cancer Treat. Rep.</i> 71:391-405.
		Livneh, E., Prywes, R., Kashles, O., Reiss, N., Sasson, I., Mory, Y., Ullrich, A. and Schlessinger, J. (1986) Reconstitution of human epidermal growth factor receptors and its deletion mutants in cultured hamster cells. <i>J. Biol. Chem.</i> 261:12490-12497.
		Loosfelt, H., Atger, M., Misrahi, M., Guiochon-Mantel, A., Meriel, C., Logeat, F., Benarous, R., Milgrom, E. (1986) Cloning and sequence analysis of rabbit progesterone-receptor complementary DNA. <i>Proc. Natl. Acad. Sci. U S A.</i> 83:9045-9049.
		Lusky, M. and Botchan, M. (1981) Inhibition of SV40 replication in simian cells by specific pBR322 DNA sequences. <i>Nature</i> 293:79-81.
		Maddon, P.J., Dalgleish, A.G., McDougal, J.S., Clapham, P.R., Weiss, R.A. and Axel, R. (1986) The T4 gene encodes the AIDS virus receptor and is expressed in the immune system and the brain. <i>Cell</i> 47:333-348.
		Makowske, M., Birnbaum, M.J., Ballester, R. and Rosen, O.M. (1986) A cDNA encoding protein kinase C identifies two species of mRNA in brain and GH3 cells. <i>J. Biol. Chem.</i> 261:13389-13392.
		Mann, R., Mulligan, R.C. and Baltimore, D. (1983) Construction of a retrovirus packaging mutant and its use to produce helper-free defective retrovirus. <i>Cell</i> 33:153-159.
		Masui, T., Wakefield, L.M., Lechner, J.F., LaVeck, M.A., Sporn, M.B. and Harris, C.C. (1986) Type beta transforming growth factor is the primary differentiation-inducing serum factor for normal human bronchial epithelial cells. <i>Proc. Natl. Acad. Sci. USA</i> 83:2438-2442.
		McConlogue, L., Dana, S.L., Coffino, P. (1986) Multiple mechanisms are responsible for altered expression of ornithine decarboxylase in overproducing variant cells. <i>Mol. Cell. Biol.</i> 6:2865-2871.
		Meijlink, F., Curran, T., Miller, A.D. and Verma, I.M. (1985) Removal of a 67-base-pair sequence in the noncoding region of protooncogene fos converts it to a transforming gene. <i>Proc. Natl. Acad. Sci. USA</i> 82:4987-4991.
		Metcalf, D. (1985) The granulocyte-macrophage colony-stimulating factors. <i>Science</i> 229:16-22.
		Metcalf, D., Roberts, T.M., Cherington, and V. Dunn, A.R. (1987) The in vitro behavior of hemopoietic cells transformed by polyoma middle T antigen parallels that of primary human myeloid leukemic cells. <i>EMBO J.</i> 6:3703-3709.
		Nakagawa, M., Akiyama, S., Yamaguchi, T., Shiraishi, N., Ogata, J., Kuwano, M. (1986) Reversal of multidrug resistance by synthetic isoprenoids in the KB human cancer cell line. <i>Cancer Res.</i> 46:4453-4457.
		Nichols, E.J., Manger, R., Hakomori, S.I., Rohrschneider, L.R. (1987) Transformation by the oncogene v-fms: the effects of castanospermine on transformation-related parameters. <i>Exp. Cell Res.</i> 173:486-495.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Nishikawa, M., Uemura, Y., Hidaka, H., Shirakawa, S. (1986) 1-(5-Isoquinolinesulfonyl)-2-methylpiperazine(H-7), a potent inhibitor of protein kinases, inhibits the differentiation of HL-60 cells induced by phorbol diester. Life Sci. 39:1101-1107.
		Nishizuka, Y. (1984) The role of protein kinase C in cell surface signal transduction and tumour promotion. Nature 308:693-698.
		Nishizuka, Y. (1986) Studies and perspectives of protein kinase C. Science 233:305-312.
		O'Brian, C.A., Lawrence, D.S., Kaiser, E.T. and Weinstein, I.B. (1984) Protein kinase C phosphorylates the synthetic peptide Arg-Arg-Lys-Ala-Ser-Gly-Pro-Pro-Val in the presence of phospholipid plus either Ca ²⁺ or a phorbol ester tumor promoter. Biochem. Biophys. Res. Commun. 124:296-302.
		O'Brian, C.A., Arcoleo, J.P., Housey, G.M. and Weinstein, I.B. (1985) Studies on protein kinase C and their relevance to tumor promotion. In Levine, A.J. et al. (Eds), Cancer Cells 3: Growth Factors and Transformation pp. 359-363. (Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.)
		O'Brian, C.A., Liskamp, R.M., Solomon, D.H. and Weinstein, I.B. (1985) Inhibition of protein kinase C by tamoxifen. Cancer Res. 45:2462-2465.
		O'Brian, C.A., Liskamp, R.M., Solomon, D.H., Weinstein, I.B. (1986) Triphenylethylenes: a new class of protein kinase C inhibitors. J. Natl. Cancer Inst. 76:1243-1246.
		O'Brian et al., "Specific and Direct Binding Of Protein Kinase C to an Immobilized Tamoxifen Analogue", 1988, cancer Reserch, 48:3626-29.
		O'Hara, C.J., Grover, J., Price, G.B. (1984) Cells resistant to cytotoxic drugs are recognized by monoclonal antibody. J. Clin. Immunol. 4:403-411.
		Ohno, S., Kawasaki, H., Imajoh, S., Suzuki, K., Inagaki, M., Yokokura, H., Sakoh, T. and Hidaka, H. (1987) Tissue-specific expression of three distinct types of rabbit protein kinase C. Nature 325:161-166.
		Ono, Y., Kurokawa, T., Fujii, T., Kawahara, K., Igarashi, K., Kikkawa, U., Ogita, K. and Nishizuka, Y. (1986) Two types of complementary DNAs of rat brain protein kinase C. Heterogeneity determined by alternative splicing. FEBS Lett. 206:347-352.
		Ono, Y., Kikkawa, U., Ogita, K., Fujii, T., Kurokawa, T., Asaoka, Y., Sekiguchi, K., Ase, K., Igarashi, K. and Nishizuka, Y. (1987) Expression and properties of two types of protein kinase C: alternative splicing from a single gene. Science 236:1116-1120.
		Palaszynski, E.W., Ihle, J.N. (1984) Evidence for specific receptors for interleukin 3 on lymphokine-dependent cell lines established from long-term bone marrow cultures. J. Immunol. 132:1872-1878.
		Parker, P.J., Coussens, L., Totty, N., Rhee, L., Young, S., Chen, E., Stabel, S., Waterfield, M.D. and Ullrich, A. (1986) The complete primary structure of protein kinase C--the major phorbol ester receptor. Science 233:853-859.
		Pauwels, R., De Clercq, E., Desmyter, J., Balzarini, J., Goubau, P., Herdewijn, P., Vanderhaeghe, H., Vandeputte, M. (1987) Sensitive and rapid assay on MT-4 cells for detection of antiviral compounds against the AIDS virus. J. Virol. Methods 16:171-185.
		Perkins, A.S., Kirschmeier, P.T., Gattoni-Celli, S. and Weinstein, I.B. (1983) Design of a retrovirus-derived vector for expression and transduction of exogenous genes in mammalian cells. Mol. Cell. Biol. 3:1123-1132.
		Persons, D.A., Wilkison, W.O., Bell, R.M., Finn, O.J. (1988) Altered growth regulation and enhanced tumorigenicity of NIH 3T3 fibroblasts transfected with protein kinase C-I cDNA. Cell 52:447-458.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Pontremoli, S., Melloni, E., Michetti, M., Sparatore, B., Salamino, F., Sacco, O. and Horecker, B.L. (1987) Phosphorylation and proteolytic modification of specific cytoskeletal proteins in human neutrophils stimulated by phorbol 12-myristate 13-acetate. <i>Proc. Natl. Acad. Sci. USA</i> 84:3604-3608.
		Pritchett, D.B., Bach, A.W., Wozny, M., Taleb, O., Dal Toso, R., Shih, J.C. and Seeburg, P.H. (1988) Structure and functional expression of cloned rat serotonin 5HT-2 receptor. <i>EMBO J.</i> 7:4135-4140.
		Prywes, R., Livneh, E., Ullrich, A. and Schlessinger, J. (1986) Mutations in the cytoplasmic domain of EGF receptor affect EGF binding and receptor internalization. <i>EMBO J.</i> 5:2179-2190.
		Quillardet, P., Huisman, O., D'Ari, R. and Hofnung, M. (1982) SOS chromotest, a direct assay of induction of an SOS function in Escherichia coli K-12 to measure genotoxicity. <i>Proc. Natl. Acad. Sci. USA</i> 79:5971-5975.
		Racker, E., Resnick, R.J., Feldman, R.. (1985) Glycolysis and methylaminoisobutyrate uptake in rat-1 cells transfected with ras or myc oncogenes. <i>Proc. Natl. Acad. Sci. U S A.</i> 82:3535-3538.
		Riedel, H., Schlessinger, J., Ullrich, A. (1987) A chimeric, ligand-binding v-erbB/EGF receptor retains transforming potential. <i>Science</i> 236:197-200.
		Roninson, I.B., Abelson, H.T., Housman, D.E., Howell, N., Varshavsky, A. (1984) Amplification of specific DNA sequences correlates with multi-drug resistance in Chinese hamster cells. <i>Nature</i> 309(5969):626-628.
		Roninson, I.B., Chin, J.E., Choi, K.G., Gros, P., Housman, D.E., Fojo, A., Shen, D.W., Gottesman, M.M., Pastan, I. (1986) Isolation of human mdr DNA sequences amplified in multidrug-resistant KB carcinoma cells. <i>Proc. Natl. Acad. Sci. USA</i> 83:4538-4542.
		Roninson, I.B., Chin, J.E., Choi, K. (1986) Mdr gene amplification in multidrug-resistant cells. In: <i>Journal of Cellular Biochemistry, Supplement 10A: UCLA Symposia on Molecular & Cellular Biology</i> , Abstract A18, Alan R. Liss, Inc., New York, p. 12.
		Roninson, I.B. (1987) Molecular mechanism of multidrug resistance in tumor cells. <i>Clin. Physiol. Biochem.</i> 5:140-151.
		Rosenthal, A., Lindquist, P.B., Bringman, T.S., Goeddel, D.V. and Derynck, R. (1986) Expression in rat fibroblasts of a human transforming growth factor-alpha cDNA results in transformation. <i>Cell</i> 46:301-309.
		Rovera, G., Santoli, D., Damsky, C. (1979) Human promyelocytic leukemia cells in culture differentiate into macrophage-like cells when treated with a phorbol diester. <i>Proc. Natl. Acad. Sci. USA.</i> 76:2779-2783.
		Riordan, J.R., Deuchars, K., Kartner, N., Alon, N., Trent, J., Ling, V. (1985) Amplification of P-glycoprotein genes in multidrug-resistant mammalian cell lines. <i>Nature</i> 316(6031):817-819.
		Roth, C.W., Singh, T., Pastan, I. and Gottesman, M.M. (1982) Rous sarcoma virus transformed cells are resistant to cyclic AMP. <i>J. Cell Physiol.</i> 111:42-48.
		Rubin, L.A., Hoekzema, G.S., Nelson, D.L., Greene, W.C. and Jay, G. (1987) Reconstitution of a functional interleukin 2 receptor in a nonlymphoid cell. <i>J. Immunol.</i> 139:2355-2360.
		Safa, A.R., Glover, C.J., Sewell, J.L., Meyers, M.B., Biedler, J.L., Felsted, R.L. (1987) Identification of the multidrug resistance-related membrane glycoprotein as an acceptor for calcium channel blockers. <i>J. Biol. Chem.</i> 262:7884-7888.
		Safa, A.R. (1988) Photoaffinity labeling of the multidrug-resistance-related P-glycoprotein with photoactive analogs of verapamil. <i>Proc. Natl. Acad. Sci. U S A.</i> 85:7187-7191.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Sakai, Y., Kimura, and H. Okamoto, K. (1986) Pharmacological characterization of serotonin receptor induced by rat brain messenger RNA in <i>Xenopus</i> oocytes. <i>Brain Res.</i> 362:199-203.
		Salomon, D.S., Perroteau, I., Kidwell, W.R., Tam, J., Derynck, R. (1987) Loss of growth responsiveness to epidermal growth factor and enhanced production of alpha-transforming growth factors in ras-transformed mouse mammary epithelial cells. <i>J. Cell. Physiol.</i> 130:397-409.
		Samid, D., Chang, E.H., Friedman, R.M. (1984) Biochemical correlates of phenotypic reversion in interferon-treated mouse cells transformed by a human oncogene. <i>Biochem. Biophys. Res. Commun.</i> 119:21-28.
		Samid, D., Chang, E.H., Friedman, R.M. (1985) Development of transformed phenotype induced by a human ras oncogene is inhibited by interferon. <i>Biochem. Biophys. Res. Commun.</i> 126:509-516.
		Shah, D.M., Horsch, R.B., Klee, H.J., Kishore, G.M., Winter, J.A., Tumer, H.J., Hironaka, C.M., Sanders, P.R., Gasser, C.S., Aykent, S., Sigel, N.R., Rogers, S.G. and Fraley, R.T. (1986) Engineering herbicide tolerance in transgenic plants. <i>Science</i> 233:478-481.
		Shen, D.W., Cardarelli, C., Hwang, J., Cornwell, M., Richert, N., Ishii, S., Pastan, I., Gottesman, M.M. (1986) Multiple drug-resistant human KB carcinoma cells independently selected for high-level resistance to colchicine, adriamycin, or vinblastine show changes in expression of specific proteins. <i>J. Biol. Chem.</i> 261:7762-7770.
		Shen, D.W., Fojo, A., Chin, J.E., Roninson, I.B., Richert, N., Pastan, I., Gottesman, M.M. (1986) Human multidrug-resistant cell lines: increased <i>mdr1</i> expression can precede gene amplification. <i>Science</i> 232(4750):643-645.
		Shiroki, K., Hashimoto, S., Saito, I., Fukui, Y., Fukui, Y., Kato, H. and Shimojo, H. (1984) Expression of the E4 gene is required for establishment of soft-agar colony-forming rat cell lines transformed by the adenovirus 12 E1 gene. <i>J. Virol.</i> 50:854-863.
		Sibley, D.R., Benovic, J.L., Caron, M.G. and Lefkowitz, R.J. (1987) Regulation of transmembrane signaling by receptor phosphorylation. <i>Cell</i> 48:913-922.
		Sorrentino, V., Drozdoff, V., McKinney, M.D., Zeitz, L. and Fleissner, E. (1986) Potentiation of growth factor activity by exogenous c-myc expression. <i>Proc. Natl. Acad. Sci. USA</i> 83:8167-8171.
		Stabel, S., Rodriguez-Pena, A., Young, S., Rozengurt, E. and Parker, P.J. (1987) Quantitation of protein kinase C by immunoblot-expression in different cell lines and response to phorbol esters. <i>J. Cell. Physiol.</i> 130:111-117.
		Stern, D.F., Roberts, A.B., Roche, N.S., Sporn, M.B. and Weinberg, R.A. (1986) Differential responsiveness of myc- and ras-transfected cells to growth factors: selective stimulation of myc-transfected cells by epidermal growth factor. <i>Mol. Cell. Biol.</i> 6:870-877.
		Strader, C.D., Sigal, I.S., Register, R.B., Candelore, M.R., Rands, E., Dixon, R.A. (1987) Identification of residues required for ligand binding to the beta-adrenergic receptor. <i>Proc. Natl. Acad. Sci. U S A.</i> 84:4384-4388.
		Strader, C.D., Sigal, I.S., Blake, A.D., Cheung, A.H., Register, R.B., Rands, E., Zemcik, B.A., Candelore, M.R., Dixon, R.A. (1987) The carboxyl terminus of the hamster beta-adrenergic receptor expressed in mouse L cells is not required for receptor sequestration. <i>Cell</i> 49:855-863.
		Strader, C.D., Dixon, R.A., Cheung, A.H., Candelore, M.R., Blake, A.D., Sigal, I.S. (1987) Mutations that uncouple the beta-adrenergic receptor from Gs and increase agonist affinity. <i>J. Biol. Chem.</i> 262:16439-16443.
		Strader, C.D., Candelore, M.R., Rands, E., Dixon, R.A. (1987) Beta-adrenergic receptor subtype is an intrinsic property of the receptor gene product. <i>Mol. Pharmacol.</i> 32:179-183.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Stryer, L. (1981) Biochemistry pp. 854-855.
		Stumpo, D.J., Stewart, T.N., Gilman, M.Z., Blackshear, P.J. (1988) Identification of c-fos sequences involved in induction by insulin and phorbol esters. J. Biol. Chem. 263:1611-1614.
		Takahashi, T., Kuno, M., Mishina, M., Numa, S. (1985) A physiological study on acetylcholine receptor expressed in Xenopus oocytes from cloned cDNAs. J. Physiol. (Paris) 80:229-232.
		Takeuchi, M., Sato, Y. and Nitta, K. (1984) An in vitro screening method for antitumor and/or antitumorigenic substances involving the transformation of chick embryo fibroblasts infected with Rous sarcoma virus. J. Antibiot. (Tokyo) 37:235-238.
		Taparowsky, E., Suard, Y., Fasano, O., Shimizu, K., Goldfarb, M., Wigler, M. (1982) Activation of the T24 bladder carcinoma transforming gene is linked to a single amino acid change. Nature 300(5894):762-765.
		Tseng, A. Jr., Lee, W.M., Jakobovits, E.B., Kirsten, E., Hakam, A., McLick, J., Buki, K., Kun, E. (1987) Prevention of tumorigenesis of oncogene-transformed rat fibroblasts with DNA site inhibitors of poly(ADP ribose) polymerase. Proc. Natl. Acad. Sci. USA 84:1107-1111.
		Tsuruo, T., Iida, H., Tsukagoshi, S., Sakurai, Y. (1981) Overcoming of vincristine resistance in P388 leukemia in vivo and in vitro through enhanced cytotoxicity of vincristine and vinblastine by verapamil. Cancer Res. 41:1967-1972.
		Tsuruo, T., Iida, H., Tsukagoshi, S., Sakurai, Y. (1983) Potentiation of vincristine and Adriamycin effects in human hemopoietic tumor cell lines by calcium antagonists and calmodulin inhibitors. Cancer Res. 43:2267-2272..
		Tsuruo, T., Kawabata, H., Nagumo, N., Iida, H., Kitatani, Y., Tsukagoshi, S., Sakurai, Y. (1985) Potentiation of antitumor agents by calcium channel blockers with special reference to cross-resistance patterns. Cancer Chemother. Pharmacol. 15:16-19.
		Ueda, K., Cornwell, M.M., Gottesman, M.M., Pastan, I., Roninson, I.B., Ling, V., Riordan, J.R. (1986) The mdrl gene, responsible for multidrug-resistance, codes for P-glycoprotein. Biochem. Biophys. Res. Commun. 141:956-962.
		Ueda, K., Cardarelli, C., Gottesman, M.M., Pastan, I. (1987) Expression of a full-length cDNA for the human "MDR1" gene confers resistance to colchicine, doxorubicin, and vinblastine. Proc. Natl. Acad. Sci. U S A. 84:3004-3008
		Uehara, Y., Hori, M., Takeuchi, T. and Umezawa, H. (1985) Screening of agents which convert 'transformed morphology' of Rous sarcoma virus-infected rat kidney cells to 'normal morphology': identification of an active agent as herbimycin and its inhibition of intracellular src kinase. Jpn. J. Cancer Res. 76:672-675.
		Uehara, Y., Hori, M., Takeuchi, T. and Umezawa, H. (1986) Phenotypic change from transformed to normal induced by benzoquinonoid ansamycins accompanies inactivation of p60src in rat kidney cells infected with Rous sarcoma virus. Mol. Cell. Biol. 6:2198-2206.
		Uehara, Y. (1986) Cancer gene inhibitor and its screening. Oncologia 19:90-93. (in Japanese with accompanying English translation)
		Uehara, Y. and Hori, Y. (1987) An approach to developing anti tumor agents by using the cells expressing particular oncogenes. Taisha 24:197-203. (in Japanese with accompanying English translation).
		Uehara, Y., Murakami, Y., Mizuno, S., Kawai, S. (1988) Inhibition of transforming activity of tyrosine kinase oncogenes by herbimycin A. Virology 164:294-298.
		Uehara, Y., Fukazawa, H., Murakami, Y. and Mizuno, S. (1989) Irreversible inhibition of v-src tyrosine kinase activity by herbimycin A and its abrogation by sulfhydryl compounds. Biochem. Biophys. Res. Commun. 163:803-809.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Ullrich, A., Coussens, L., Hayflick, J.S., Dull, T.J., Gray, A., Tam, A.W., Lee, J., Yarden, Y., Libermann, T.A., Schlessinger, J., Downward, J., Mayes, E.L.V., Whittle, N., Waterfield, M.D. and Seeburg, P.H. (1984) Human epidermal growth factor receptor cDNA sequence and aberrant expression of the amplified gene in A431 epidermoid carcinoma cells. <i>Nature</i> 309:418-425.
		Umbach, J.A., Gundersen, C.B. (1987) Expression of an omega-conotoxin-sensitive calcium channel in <i>Xenopus</i> oocytes injected with mRNA from Torpedo electric lobe. <i>Proc. Natl. Acad. Sci. USA</i> 84:5464-5468.
		Umezawa, H., Imoto, M., Sawa, T., Isshiki, K., Matsuda, N., Uchida, T., Iinuma, H., Hamada, M., Takeuchi, T., (1986) Studies on a new epidermal growth factor-receptor kinase inhibitor, erbstatin, produced by MH435-hF3. <i>J. Antibiot. (Tokyo)</i> 39:170-3.
		Von Hoff, D.D., Forseth, B. and Warfel, L.E. (1985) Use of a radiometric system to screen for antineoplastic agents: correlation with a human tumor cloning system. <i>Cancer Res.</i> 45:4032-4038.
		von Meyenburg, K., Jorgensen, B.B., Michelsen, O., Sorensen, L., McCarthy, J.E. (1985) Proton conduction by subunit a of the membrane-bound ATP synthase of <i>Escherichia coli</i> revealed after induced overproduction. <i>EMBO J.</i> 4:2357-2363.
		Weinstein, I.B., Gattoni-Celli, S., Kirschmeier, P., Lambert, M., Hsiao, W., Backer, J. and Jeffrey, A. (1984) Multistage carcinogenesis involves multiple genes and multiple mechanisms. In Levine, A.J. et al. (Eds), <i>Cancer Cells 1: The Transformed Phenotype</i> pp. 229-237 (Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.)
		Weinstein I.B., O'Brian, C.A., Housey, G.M., Johnson, M.D., Kirschmeier, P. and Hsiao, W. (1987) Studies on the mechanism of action of protein kinase C and the isolation of molecular clones encoding the enzyme. <i>Symp. Fundam. Cancer Res.</i> 39:173-183.
		Weinstein, I.B. (1987) Growth factors, oncogenes, and multistage carcinogenesis. <i>J. Cell. Biochem.</i> 33:213-224..
		Weiss, A., Imboden, J., Shoback, D., Stobo, J. (1984) Role of T3 surface molecules in human T-cell activation: T3-dependent activation results in an increase in cytoplasmic free calcium. <i>Proc. Natl. Acad. Sci. U S A</i> 81:4169-4173
		White, M.F., Livingston, J.N., Backer, J.M., Lauris, V., Dull, T.J., Ullrich, A. and Kahn, C.R. (1988) Mutation of the insulin receptor at tyrosine 960 inhibits signal transmission but does not affect its tyrosine kinase activity. <i>Cell</i> 54:641-649.
		Wigler, M., Silverstein, S., Lee, L.-S., Pellicer, A., Cheng, Y.-C. and Axel, R. (1977) Transfer of purified herpes virus thymidine kinase gene to cultured mouse cells. <i>Cell</i> 11:223-232.
		Willingham, M.C., Cornwell, M.M., Cardarelli, C.O., Gottesman, M.M., Pastan, I. (1986) Single cell analysis of daunomycin uptake and efflux in multidrug-resistant and -sensitive KB cells: effects of verapamil and other drugs. <i>Cancer Res.</i> 46:5941-5946.
		Woodgett, J.R., Gould, K.L. and Hunter, T. (1986) Substrate specificity of protein kinase C. Use of synthetic peptides corresponding to physiological sites as probes for substrate recognition requirements. <i>Eur. J. Biochem.</i> 161:177-184.
		Yamamoto, K.R., Alberts, B.M. (1976) Steroid receptors: elements for modulation of eukaryotic transcription. <i>Annu. Rev. Biochem.</i> 45:721-746..
		Yanovich, S., Preston, L. (1984) Effects of verapamil on daunomycin cellular retention and cytotoxicity in P388 leukemic cells. <i>Cancer Res.</i> 44:1743-1747
		Yokota, T., Lee, F., Rennick, D., Hall, C., Arai, N., Mosmann, T., Nabel, G., Cantor, H. and Arai, K. (1984) Isolation and characterization of a mouse cDNA clone that expresses mast-cell growth-factor activity in monkey cells. <i>Proc. Natl. Acad. Sci. USA</i> 81:1070-1074.

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		Yu, V.C., Richards, M.L. and Sadee, W. (1986) A human neuroblastoma cell line expresses mu and delta opioid receptor sites. J. Biol. Chem. 261:1065-1070

EXAMINER	DATE CONSIDERED
<p>EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	